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DATE MAILED: 07/25/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/431,159	11/01/1999	YORAM BRONICKI	P-15149	8345
759	07/25/2003			
NATH & ASS	•		EXAMI	NER
1030 FIFTEENT SIXTH FLOOR	TH STREET NW		DOROSHENK	K, ALEXA A
WASHINGTON			ART UNIT	PAPER NUMBER
			1764	

Please find below and/or attached an Office communication concerning this application or proceeding.

	4				
	Application N .	Applicant(s)			
•	09/431,159	BRONICKI, YORAM			
Office Action Summary	Examiner	Art Unit			
,	Alexa A. Doroshenk	1764			
The MAILING DATE of this communication Period for Reply	appears n the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may a rep. reply within the statutory minimum of thirty (riod will apply and will expire SIX (6) MONTH atute, cause the application to become ABAN	ly be timely filed 30) days will be considered timely. S from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on	13 May 2003 .				
2a)⊠ This action is FINAL . 2b)□	This action is non-final.				
3) Since this application is in condition for all closed in accordance with the practice und Disposition of Claims	owance except for formal matte der <i>Ex par</i> te <i>Quayle</i> , 1935 C.D.	ers, prosecution as to the merits is 11, 453 O.G. 213.			
4)⊠ Claim(s) <u>1</u> is/are pending in the application	1.				
4a) Of the above claim(s) is/are without					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requirement				
Application Papers	aror election requirement.	,			
9)☐ The specification is objected to by the Exam	iner.				
10) The drawing(s) filed on is/are: a) □ ad	ccepted or b) objected to by the	Examiner.			
Applicant may not request that any objection to					
11)☐ The proposed drawing correction filed on					
If approved, corrected drawings are required in					
12) The oath or declaration is objected to by the	Examiner.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
a) All b) Some * c) None of:					
1. Certified copies of the priority docume	ents have been received.				
2. Certified copies of the priority docume	ents have been received in App	lication No			
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for dome	•				
a) The translation of the foreign language 15) Acknowledgment is made of a claim for dome	provisional application has beer	n received.			
Attachment(s)	odio priority under 33 U.S.C. 99	3 120 anu/01 121.			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152) .			
J.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office	Action Summary	Part of Paper No. 26			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Van Dongen et al. (4,405,441) in view of van Klinken et al. (4,039,429) and Kwant et al. (4,200,519).

Van Dongen et al. discloses an apparatus comprising:

a heater for heating heavy hydrocarbons (401) and an atmospheric fractionating tower for fractionating the heated heavy hydrocarbon feed as a first atmospheric distilling unit (407) (Since a still contains both a heat source and a fractionating tower, the atmospheric distillation unit is equivalent to the heater and the atmospheric fractionating tower of the present invention);

a further heater and vacuum fractioning tower as vacuum distilling unit (408) for atmospheric bottoms (421);

a de-asphalting unit (409) for producing DAO (403) and asphaltenes (404) from said vacuum residue (402); and

a thermal cracker (412) for cracking de-asphalting unit oil (403) with recycle connections from an outlet (425) of the thermal cracker (412) to an inlet (418) of the atmospheric fractioning tower (407) (via 425, 428, 429, 405, 415, 416, 418).

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Van Dongen et al. further discloses wherein the light vacuum fractions may be subjected to thermal cracking (col. 1, lines 25-28) and further sites the van Klinken et al. reference as demonstrating the processing of such fractions.

Looking to the cited van Klinken et al. reference, the vacuum distilling zone (3) has light fraction (21) sent to a cracking zone (10) along with oil (23) from a deasphalting unit (4). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide means, in the apparatus of Van Dongen et al., for supplying the vacuum light fractions to the thermal cracking unit (412) as it has been taught by van Klinken et al. that a single cracking unit is capable of cracking both vacuum light fractions and de-asphalting unit oil and since such further processing of vacuum light fractions by thermal cracking is recognized by Van Dongen et al. to be desirable.

The claims, as amended, recite wherein a line from said thermal cracker recycles only cracked oil to the inlet of the atmospheric fractionating tower. In view of the arguments presented by applicant and applicant's disclosure, this has been interpreted as wherein a line directly connects the cracker with the atmospheric fractionating tower for recycle of oil without any interposing distillation, fractionation or treatment units.

Van Dongen et al. discloses wherein oil is recycled from the thermal cracking unit (412) to an inlet (418) of the atmospheric fractioning tower (407) via 425, 428, 429, 405, 415, 416, 418 wherein an additional atmospheric distillation unit, a vacuum distillation unit and catalytic hydro-treating unit are interposed.

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Kwant et al. also teaches a process for the preparation of oil wherein thermally cracked product (11) is recycled directly from a thermal cracking zone (4) to the inlet (12) of a first atmospheric distillation zone (3), demonstrating that cracked oil can be directly recycled to an atmospheric distillation zone, without interposing treatments, and a system will continue to be fully operational.

It is held that it would have been obvious to one of ordinary skill in the art at the time the invention was made to eliminate the interposing units and their functions in the recycle line of Van Dongen et al. because the omission of an element and its function where not needed (as demonstrated by Kwant et al.) is obvious. <u>Ex parte Rainu</u>, 168 USPQ 375 (PTO Bd. of Appl. 1969).

Response to Arguments

35 USC 103 Rejections

van Klinken et al. in view of Friday et al.

In view of applicant's proper statement of evidence to disqualify the Friday et al. reference, the rejection has been withdrawn.

Van Dongen et al. in view of van Klinken et al.

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexa A. Doroshenk whose telephone number is 703-305-0074. The examiner can normally be reached on Monday - Thursday from 9:00 AM - 7:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 703-308-6824. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

PRIMARY EXAMINER
GROUP 1100

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